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EUSO-Balloon mission to record extensive air showers from near space

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The first Balloon-EUSO stratospheric flight launched from Timmins Ontario by the French Space Agency (CNES) recorded artificial tracks and pulses from a laser and optical flashers flown in helicopter (NASA) under the balloon. To make the first measurements of high energy cosmic ray extensive air showers from near space, preparations are underway for a super pressure balloon flight of several weeks duration. The proposed launch site is Wanaka New Zealand. We describe the parameters of this mission, the updated instrument, and the expected rates of extensive air showers events produced by cosmic primaries in the energy range of $\sim 5 \times 10^{17}$ to $\sim 2 \times 10^{19}$ eV. A precursor short duration flight from Aire sur l'Adour France is also envisioned to test improvements to the instrument.

Collaboration

JEM-EUSO

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